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City of Chelsea

DEPARTMENT OF PUBLIC WORKS 500 Broadway City Hall, Room 310 Chelsea, Massachusetts 02150 Telephone: (617) 889-8244 Fax: (617) 889-8362

United States Environmental Protection Agency Water Protection Unit P.O. Box 8127 Boston, Massachusetts 02114

April 21, 2006

RE: NPDES Stormwater Phase II Annual Report

To Whom It May Concern:

Please find sent one (1) copy of the City of Chelsea's 2005 Annual Report for NPDES Phase II General Permit.

If you have any questions regarding this matter, please contract me directly at 617-889-8376.

Sincerely,

Andrew B. DeSantis, Assistant Director Municipality/Organization: City of Chelsea

EPA NPDES Permit Number: MAR041077

MaDEP Transmittal Number: W
Annual Report Number
& Reporting Period: No. 3: March 05-March 06

NPDES PII Small MS4 General Permit Annual Report

Part I. General Information

Contact Person: Andrew B. DeSantis	Title:	Assistant Director, Chelsea DPW		
Telephone #: 617-889-8376		Email: adesantis@chelseama.gov		

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature:	Jay Glih	
Printed Name:	Jay Ash	
Title:	City Manager	
Date:	4/25/04	

Part II. Self-Assessment

The City of Chelsea has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, except for the following provisions:

Part II B.6(a) Employee training component not included in NOI.

Part III. Summary of Minimum Control Measures

1. Public Education and Outreach

PE-3		PE-2	PE-1	BMP ID#
Outreach to Latino Community		Educational Material Distribution	Partnership Program w/Chelsea Greenspace & Mystic River Watershed Org.	BMP Description
DPW/Andrew B. DeSantis		DPW/Andrew B. DeSantis	DPW/Andrew B. DeSantis	Responsible Dept./Person Name
Develop Spanish Language Brochure within 1 year		Distribute materials 2x per year at community events	Conduct Public Forums on a yearly basis.	Measurable Goal(s)
Distributed Spanish Language version of MWRA's Healthy Environment Starts at Home.	Informational materials maintained on public stand in City Hall Corrider. Stormwater Webpage created: http://www.chelseama.gov/Public_Documents/ChelseaMA_DPW/stormwater	Distributed information at December 3, 2006 public forum including MWRA's Healthy Environment Starts at Home.	Participated w/Chelsea Greenspace & Mystic River Watershed Organization at roll-out of Mystic River Action Plan on December 3, 2006.	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)
Develop Spanish Language Brochure within 1 year		Distribute materials 2x per year at community events	Conduct one public forum	Planned Activities – Permit Year 4

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2. Public Involvement and Participation

Revised	,	Revised	Revised	PP-4	Revised	77-3	Revised		Revised		D#
				Stakeholder Meetings		Volunteer Monitoring		South Diam Stenching		Meetings	BMP Description
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		DPW/Andrew B. DeSantis		DPW/Andrew B. DeSantis		B. DeSantis		B. DeSantis	Responsible Dept./Person Name
				Hold annual stakeholder meeting		Continue Volunteer Monitoring on an annual basis		Stencil all catch basin structures within 3 years		Meetings with Chelsea Greenspace and Mystic River Watershed Organization on a semi-annual basis	Measurable Goal(s)
				As noted above.		Mystic River Watershed Organization monitoring outfalls every 3 months.		200 Stenciled Year 3		Met with Chelsea Greenspace, Mystic River Watershed Organization and Chelsea Creek Action Group on NPDES permit renewals for Bulk Fuel Oil Storage Terminals Chelsea Creek and Island End River Mitigation.	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)
				Hold annual stakeholder meeting		Continue monitoring		Stencil 50% of catch basins		Hold Coordination Meetings with Chelsea Greenspace and Mystic River Watershed Organization on a semi-annual basis	Planned Activities – Permit Year 4

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3. Illicit Discharge Detection and Elimination

vised	IDDE Illicit Discharge 4 Detection and	IDDE Industrial/Business -3 Connections	IDDE Non-stormwater -2 discharge Ordinance	IDDE Storm Drain Map -1	BMP BMP Description ID#
	DPW/Andrew B. DeSantis	DPW/Andrew B. DeSantis	DPW/Andrew B. DeSantis	DPW/Andrew B. DeSantis	Responsible Dept./Person Name
	Establish Program within 1 year	Establish Monitoring Program within 2 years.	Adopt Non-stormwater discharge Ordinance within 2 years.	Update Storm/Sanitary Sewer Map Yearly (ongoing)	Measurable Goal(s)
	Illegal sanitary connection from Gulf Oil Terminal to CHE-008 Outfall detected and removed.	Reviewed of NPDES Phase I permits for fuel storage properties along Chelsea River and Mystic River and commented to EPA.	Partially completed within current ordinance	Storm Drain Map updated October 2005. Additional info being developed regarding drainage area tributary to Island River for City & EPA.	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)
	Dry-weather sampling to begin May 2006.	Establish Monitoring Program within 2 years.	Complete update of ordinance	Storm Drain Map to be updated October 2005. Island River drainage area to be completed by July 1, 2005.	Planned Activities – Permit Year 4

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4. Construction Site Stormwater Runoff Control

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5. Post-Construction Stormwater Management in New Development and Redevelopment

Revised	Revised	Revised	PCRC -3	PCRC -2	PCRC -1	BMP ID#
			Inspection program guidelines	Operation and Maintenance Agreement	Post Construction Ordinance	BMP Description
			DPW/Andrew B. DeSantis	DPW/Andrew B. DeSantis	DPW/Andrew B. DeSantis	Responsible Dept./Person Name
			Set up inspection program for post construction runoff controls within 2 years	Develop within 1 year	Develop within 1 year.	Measurable Goal(s)
			Not started	Operation Maintenance plans required of any new development/redevelopment.	Not started	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners indicated, if any)
			Complete by end of 4 th quarter year 4.	Formalize requirements and form by 4th quarter year 4.	Develop by end of 3rd quarter, year 4	Planned Activities – Permit Year 4

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6. Pollution Prevention and Good Housekeeping in Municipal Operations

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	Revised	 Revised	Revised	Revised	MGH -3	MGH -2			-1	ID#
					Spill Response & Prevention	Programmed Catch Basin Cleaning			Program	
					DPW/Andrew B. DeSantis	DPW/Andrew B. DeSantis			B. DeSantis	Dept./Person Name
					Review existing response plan and update within 1 year.	Continue ongoing contracted catch basin cleaning at the rate of 33% of all catch basins per year.		month from April 1 to November 30.	Continue ongoing program of sweeping	Measul able Coal(s)
					Not completed	500 Catch basins cleaned year 3.			Ongoing	Permit Year 3 (Reliance on non-municipal partners indicated, if any)
					Complete review and update by end of 4th quarter of year 4.	Clean 500 catch basins year 4.			Continue program.	Planned Activities – Permit Year 4

7. BMPs for Meeting Total Maximum Daily Load (TMDL) Waste Load Allocations (WLA) << if applicable>>

Revised	Revised	Revised	TMD L4	Revised	L-3	Revised	L-2	Revised	<u>r-1</u>	TMI	BMP ID#
			Oil and gas separators		Basins		ō	Catch Rasin Cleaning		Streetsweeping	BMP Description
			DPW/Andrew B. DeSantis	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B. DeSantis		B. DeSantis	DBW/And-our	B. DeSantis	DPW/Andrew	Responsible Dept/Person Name
		CSRC-1	Institute requirement in conjunction with		replacement catch basins to have deep sumps of CSRC-1		program of cleaning 33% of catch basins per year	Continuo contratal	program of streetsweeping every street 2x/month April 1 to November 30	Continue contracted	Measurable Goal(s)
			Catch basins at all new developments required to have oil and gas separators.	7	All newly installed catch basins for developments/redevelopments and roadway storm drain construction constructed with deep sumps.		Soo Catch Dasins Creation year 5.	6000-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	G E G	Ongoing	Progress on Goal(s) – Permit Year 3 (Reliance on non-municipal partners
			Formal adoption of requirements to be codified in storm water ordinance		Codify into storm water ordinance		Clean 500 carch basins year 4.		் பாயம் பலுவா.	Continue program	Planned Activities – Permit Year 4

		7a. A
		7a. Additions
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7b. WLA Assessment

Part IV. Summary of Information Collected and Analyzed

One storm water outfall at Mill Creek was collected and tested for the following parameters:

	Results	เร
Fecal Coliform (MF)	Δ	cfu/100mls
E-Coli (MPN)	23	MPN/100 ml
Surfactants (MPAS)	.03	mg/1
Ammonia (as N)	2.0	mg/l

Part V. Program Outputs & Accomplishments (OPTIONAL)

Programmatic

	Annual program budget/expenditures	Stormwater management position created/staffed
	(\$)	(y/n)

Education, Involvement, and Training

1	()''' or i''';	Household Hazardous Waste Collection Days
	(w/n or mi)	Shoreline clean-up participation or quantity of shoreline miles cleaned
	(# or v/n)	Stream teams established or supported
	(v/n)	Stormwater management committee established
	(# or %)	Estimated number of residents reached by education program(s)

	School curricula implemented	material collected	community participation	days sponsored
	(y/n)	(tons or gal)	(%)	(#)
		.5 T		1

Legal/Regulatory

()	 Post-Development Stormwater Management 	Erosion & Sediment Control	 Illicit Discharge Detection & Elimination 	Accompanying Regulation Status (indicate with "X")	 Post-Development Stormwater Management 	Erosion & Sediment Control	 Illicit Discharge Detection & Elimination 	Regulatory Mechanism Status (indicate with "X")			
									Phase II	Prior to	In Place
									Review	Under	
									Drafted		
									Adopted		

Mapping and Illicit Discharges

Illicit discharges identified (#)	Outfalls inspected/screened (# or %)	• GIS (%)	• CADD (%)	Paper/Mylar (%)	Mapping method(s)	System-Wide mapping complete (%)	Estimated or actual number of outfalls (#)	Outlast mapping complete (%)	
1				100		25	14	75	

	% of population on septic systems			Illicit connections removed
	(%)	(%)	(est. gpd)	(#)
	0	100		1

Construction

	Complaints/concerns received from public (#	Fines collected (#	Tickets/Stop work orders issued (#	Site inspections completed (#	Estimated percentage of construction starts adequately regulated for erosion and sediment control (9)	Number of construction starts (>1-acre) (#	
	(#)	(# and \$)	(# or %)	(# or %)	(%)	(#)	
					100	,_	

Post-Development Stormwater Management

Estimated percentage of development/redevelopment projects adequately regulated for post-	(%)
construction stormwater control	
Site inspections completed	(# or %)
Estimated volume of stormwater recharged	(gpv)

Operations and Maintenance

	Storm drain cleaned (LF or mi.	Total number of structures cleaned (#)	Average frequency of catch basin cleaning (commercial/arterial or other critical streets) (times/yr)	Average frequency of carch basin cleaning (non-commercial/non-arterial streets) (times/yr)
	mi.)	500	i/yr)	\$/yr)
		l		

	Cost of screenings disposal	Disposal or use of sweepings (landfill, POTW, compost, recycle for sand, beneficial use, etc.)	Qty. of screenings/debris removed from storm sewer infrastructure
	(\$)		(lbs. or tons)

Vacuum street sweepers specified in contracts (y/n)	Vacuum street sweepers purchased/leased (#)			ons)	Average frequency of street sweeping (commercial/arterial or other critical streets) (times/yr)	Average frequency of street sweeping (non-commercial/non-arterial streets) (times/yr)
		70000	landfill	2000	16	

	Pesticides	 Herbicides 	■ Fertilizers	Reduction in application on public land of: ("N/A" = never used; "100%" = elimination)
(200.05)	(lbs. or %)	(lbs. or %)	(lbs. or %)	

% NaCl % CaCl ₂ % MgCl ₂ % CMA % Kac % KCl % Sand (y/n) y

Estimated net reduction in typical year salt application	(lbs. or %)	
Salt pile(s) covered in storage shed(s)	(y/n)	у
Storage shed(s) in design or under construction	(y/n)	

360 CMR: MASSACHUSETTS WATER RESOURCES AUTHORITY

APPENDIX A

COMMUNITY:	_ D ₄	ATE PREPARED:	
CONTACT PERSON:	<u> </u>		
CALCULATION OF NON LEA	I-BILLED WATER KAGE POTENTIA		N AND
CAL	ENDAR YEAR: 20	04	
	Million Gallons	Million Gallons	Percentage of Total Use
1. Total Water Use			
2. Metered Domestic Use			
3. Metered Non-Domestic Use			
4. Non-Billed Water (1-2-3)			0 #DIV/0!
5. Domestic Meter Under Registration	0		
6. Non-Domestic Meter Under Registration	0		

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7. Unmetered Public Use

8. Leakage Potential (4-5-6-7)

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